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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference RK/P33037			ent's file reference	FOR FURTHER A	CTION		n of Transmittal of International amination Report (Form PCT/IPEA/	416)
International application No. PCT/EP 03/04180				International filing date 17.04.2003	(day/moni	h/year)	Priority date (day/month/year) 19.04.2002	
1	nationa 7D207		ent Classification (IPC) or	both national classification	and IPC			
	icant AXO (GRO	UP LIMITED et al					
1.	This Auth	inter	national preliminary ex and is transmitted to tl	amination report has be ne applicant according to	en prepar Article 3	ed by this Inte 6.	rnational Preliminary Examining	3
2.	2. This REPORT consists of a total of 5 sheets, including this cover sheet.							
	This report is also accompanied by ANNEXES, i.e. sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).							
1	These annexes consist of a total of sheets.							
3.	This	repo	rt contains indications	relating to the following i	tems:			
	ı	⋈	Basis of the opinion					
	n		Priority					
	Ш	\boxtimes		of opinion with regard to	novelty, ir	ventive step a	nd industrial applicability	
	IV		Lack of unity of inver		•	•	,	
	V 🗵 Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicabili citations and explanations supporting such statement						ability;	
	VI		Certain documents of	ited				
	VII		Certain defects in the	e international applicatio	n			
	VIII		Certain observations	on the international app	lication			
Date	of sub	missio	on of the demand		Date of	completion of th	s report	<u>.</u>
07.1	07.11.2003				08.10.	2004		
	Name and mailing address of the international					ed Officer		es Petenten
preliminary examining authority: European Patent Office - P.B. 5818 Patentlaan 2 NL-2280 HV Rijswijk - Pays Bas Tel. +31 70 340 - 2040 Tx: 31 651 epo nl Fax: +31 70 340 - 3016				Bas	Seitne	r, l	. godina	
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INTERNATIONAL PRELIMINARY **EXAMINATION REPORT**

International application No.

PCT/EP 03/04180

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I.	Bas	iis	Ot	the	rep	ort

1. With regard to the elements of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)): **Description, Pages** 1-62 as originally filed Claims, Numbers 1-21 as originally filed

2. With regard to the language, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item. These elements were available or furnished to this Authority in the following language: the language of a translation furnished for the purposes of the international search (under Rule 23.1(b)). the language of publication of the international application (under Rule 48.3(b)). the language of a translation furnished for the purposes of international preliminary examination (under Rule 55.2 and/or 55.3). 3. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing: contained in the international application in written form. filed together with the international application in computer readable form. furnished subsequently to this Authority in written form. furnished subsequently to this Authority in computer readable form. The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished. The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished. 4. The amendments have resulted in the cancellation of: ☐ the description, pages: ☐ the claims, Nos.: □ the drawings, sheets: This report has been established as if (some of) the amendments had not been made, since they have

been considered to go beyond the disclosure as filed (Rule 70.2(c)).

(Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.)

6. Additional observations, if necessary:

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/EP 03/04180

,1111	. 1401	n-establishment of opinion w	ıın reç	gard to nove	ity, inventive step and industrial applicability				
1.		The questions whether the claimed invention appears to be novel, to involve an inventive step (to be non- obvious), or to be industrially applicable have not been examined in respect of:							
		the entire international applica							
☑ claims Nos. 18 and 19 (with respect to industrial applicability)									
		because:							
	ns Nos. 18 and 19 relate to the following subject matter ry examination (specify):								
		see separate sheet							
the description, claims or drawings (indicate particular elements below) or said claims Nos. are that no meaningful opinion could be formed (specify):									
$\hfill\Box$ the claims, or said claims Nos. are so inadequately supported by th could be formed.					ely supported by the description that no meaningful opinion				
		no international search report has been established for the said claims Nos.							
 A meaningful international preliminary examination cannot be carried out due to the failure of the nucleotide or amino acid sequence listing to comply with the standard provided for in Annex C of the Administrative Instructions: 									
\square the written form has not been furnished or does not comply with the Standard.									
		the computer readable form has not been furnished or does not comply with the Standard.							
V.	Rea cita	easoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; itations and explanations supporting such statement							
1.	Stat	atement							
	Nov	relty (N)	Yes: No:	Claims Claims	1-21				
	Inve	ventive step (IS)		Claims Claims	1-21				
	Industrial applicability (IA) Yes			Claims	1-17,20,21				

No: Claims

2. Citations and explanations

see separate sheet

Re Item III

Non-establishment of opinion with regard to novelty, inventive step and industrial applicability

Claims 18 and 19 relate to subject-matter considered by this Authority to be covered by the provisions of Rule 67.1(iv) PCT. Consequently, no opinion will be formulated with respect to the industrial applicability of the subject-matter of these claims (Article 34(4)(a)(i) PCT).

For the assessment of the present claims 18 and 19 on the question whether they are industrially applicable, no unified criteria exist in the PCT Contracting States. The patentability can also be dependent upon the formulation of the claims. The EPO, for example, does not recognize as industrially applicable the subject-matter of claims to the use of a compound in medical treatment, but may allow, however, claims to a known compound for first use in medical treatment and the use of such a compound for the manufacture of a medicament for a new medical treatment.

Re Item V

Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

Reference is made to the following document:

D1: WO 01 96308 A (RIVERS LEANNE ;SMITH TERENCE (GB); GROOM ANTHONY JOHN (GB); HATAKE) 20 December 2001 (2001-12-20) -& EP 1 300 396 A (EISAI CO LTD) 9 April 2003 (2003-04-09)

Document D1 which is considered to represent the closest prior art, discloses pyridinone compounds which are useful for the treatment of neurodegenerative and CNS related diseases (see formula of claim 1, examples 19, 144, 146, 239, 240-246 as well as claims 86 and 88-91).

The general formula of present claim 1 actually overlaps with the formula (I) of D1 when, in the present formula (I), X represents -(CH=CH)- and R_2 a heterocyclic group. The present compounds represent a novel selection from a general formula of compounds.

The subject matter of claims 1-21 is therefore novel over the prior art (Article 33(2)PCT).

The compounds of D1 have already been used for the treatment of neurodegenerative diseases and CNS disorders and it would therefore have been obvious for the skilled person to choose a group of compounds within the general formula of D1 in order to provide further compounds for the treatment of neurological diseases.

The subject-matter of present claims 1-21 cannot be considered as involving an inventive step (Article 33(3) PCT).

The present application relates to compounds which are useful for the treatment of neurological diseases and the **subject matter of claims 1-17,20,21** is therefore considered as **industrially applicable (Article 33(4) PCT)**.